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EXAMINER

TAYLOR, JOSHUA D

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4157

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/805,728	Applicant(s) PARNELL ET AL.	
	Examiner JOSHUA TAYLOR	Art Unit 4157	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22 March 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-46 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-46 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 22 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>11/16/2006, 4/5/2007</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Objections

Claim 4 objected to because of the following informalities: Claim 1 refers to “Si data packets.” Nowhere in the specification is it explained what this means. Examiner assumes for the below rejection that applicant means “SI,” and is referring to “service information.” Appropriate correction is required.

Claim 5 objected to because of the following informalities: Claim 5 refers to step (a) in claim 1. However, there is no step (a) listed in claim 1. Examiner assumes for the below rejection that step (a) is meant to include “**transforming respective filenames of said files into respective file identifiers, each of said file identifiers comprising a packet identifier (PID) associated with a communications channel selected to transport said file.**” Appropriate correction is required.

Claim 12 objected to because of the following informalities: Claim 12 refers to step (a). However, it is unclear what is meant by step (a). Examiner assumes for the below rejection that step (a) is meant to include “**transforming respective filenames of said files into respective file identifiers, each of said file identifiers comprising a packet identifier (PID) associated with a communications channel selected to transport said file**” from claim 1. Appropriate correction is required.

Claim 18 objected to because of the following informalities: Claim 18 refers to step (c).

However, it is unclear what is meant by step (c). Examiner assumes for the below rejection that step (c) is meant to include **“a program identifier is calculated from at least a portion of a cyclic redundancy code calculated from a file name associated with at least one packet of payload data to be transmitted”** from claim 18. Appropriate correction is required.

Claim 33 is objected to because of the following informalities: Claim 33 says **“The system of claim 32 wherein said receiver is configured to select *said said* at least one file by means of said data identifier.”** Examiner assumes for the below rejection that the second “said” italicized above was not meant to be included in the claim. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 6 recites the limitation **“wherein a first portion of *the number* is included in the packet as a payload identifier.”** There is insufficient antecedent basis for this limitation in the claim. Appropriate correction is required.

Claim 10 recites the limitation "**wherein *the bit sequence is a file identifier.***" There is insufficient antecedent basis for this limitation in the claim. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-8, 10-11, 13-15, 17, and 19-46 are rejected under U.S.C. 102(b) as being anticipated by Dougall et al. (Pub. No.: US 2003/0093485).

Regarding claim 1, Dougall et al. disclose

A method for transporting files from a cable headend (paragraph [0020], lines 1-3), **comprising: transforming respective filenames of said files into respective file identifiers** (paragraph [0034], lines 6-10), **each of said file identifiers comprising a packet identifier (PID)** (paragraph [0070], lines 8-9) **associated with a communications channel selected to transport said file** (paragraph [0070], lines 9-11); **and wherein said file identifiers are adapted to enable receivers of said communications channels to selectively receive a file by processing the communications channel associated with the file** (paragraph [0073], lines 5-7).

Regarding claim 2, Dougall et al. disclose

The method of claim 1, wherein said communications channel transports an MPEG 2 bitstream (paragraph [0066], lines 3-4).

Regarding claim 5, Dougall et al. disclose

The method of claim 1, wherein step (a) includes generating a number with an approximately uniform probability distribution (paragraph [0168], lines 1-3. A generated random number will have an approximately uniform probability distribution).

Regarding claim 6, Dougall et al. disclose

The method of claim 1, wherein a first portion of the number is included in the packet as a payload identifier (paragraph [0034], lines 10-19).

Regarding claim 7, Dougall et al. disclose

The method of claim 6, wherein a second portion of the number is included in the packet as a multicast identifier (paragraph [0038], lines 7-9).

Regarding claim 8, Dougall et al. disclose

The method of claim 7, further comprising: detecting a collision condition in which at least two packets are transmitted having the same multicast identifier, each having a respectively different bit sequence associated therewith, transmitting information associating one of the at least two packets with a non-colliding multicast identifier;

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transmitting the one packet using the non-colliding multicast identifier (paragraph [0170], lines 1-11).

Regarding claim 10, Dougall et al. disclose

The method of claim 1, wherein the bit sequence is a file identifier (paragraph [0070], lines 7-9).

Regarding claim 11, Dougall et al. disclose

The method of claim 1, further comprising: calculating the program identifier based on one of the group consisting of a cyclic redundancy code, a hash function and a pseudorandom number formed from the file name (paragraph [0168], lines 1-3).

Regarding claim 13, Dougall et al. disclose

The method of claim 11, further comprising transmitting a program identifier usage bitmap that identifies which program identifiers are being used to transmit payload data (paragraph [0034], lines 12-15).

Regarding claim 14, Dougall et al. disclose

The method of claim 11, further comprising: selecting at least one portion of the one of the group consisting of a cyclic redundancy code, a hash function and a pseudorandom number; and transmitting along with a unit of payload data a payload identifier comprising the selected portion (paragraph [0034], lines 10-19, paragraph [0168], lines 1-3).

Regarding claim 15, Dougall et al. disclose

The method of claim 11, wherein the at least one packet is transmitted using a multicast identifier formed from at least one portion of the one of the group consisting of a cyclic redundancy code, a hash function and a pseudorandom number (paragraph [0170], lines 1-11, paragraph [0168], lines 1-3).

Regarding claim 17, Dougall et al. disclose

The method of claim 1, wherein the payload data include one of the group consisting of Moving Picture Experts Group (MPEG) 1 packets and MPEG 2 packets (paragraph [0066], lines 3-4).

Regarding claim 19, Dougall et al. disclose

A method for receiving a desired packet associated with a bit sequence from a server (paragraph [0036], lines 1-6), **comprising the steps of: (a) calculating a data identifier from the bit sequence associated with the desired packet** (paragraph [0070], lines 8-9); **and (b) using the data identifier to receive the packet identified by the data identifier** (paragraph [0073], lines 5-7).

Regarding claim 20, Dougall et al. disclose

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The method of claim 19, wherein step (a) includes calculating the data identifier based on a common function that is also used by the server to calculate the data identifier when the server determines which data identifier to assign to the packet (paragraph [0070], lines 8-9).

Regarding claim 21, Dougall et al. disclose

The method of claim 20, wherein the data identifier is formed from one of the group consisting of a cyclic redundancy code, a hash function and a pseudorandom number (paragraph [0168], lines 1-3. A generated random number will have an approximately uniform probability distribution) generated using the bit sequence as an input, further comprising: selecting at least one portion of the data identifier as a payload identifier; and detecting payload data having the payload identifier transmitted therewith as the desired data (paragraph [0034]).

Regarding claim 22, Dougall et al. disclose

The method of claim 20, wherein the packet is received using a multicast identifier formed from at least one portion of a one of the group consisting of a cyclic redundancy code, a hash function and a pseudorandom number generated using the bit sequence as an input (paragraph [0168], lines 1-3. A generated random number will have an approximately uniform probability distribution).

Regarding claim 23, Dougall et al. disclose

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The method of claim 22, further comprising: detecting a collision condition in which a received packet has a multicast identifier that matches the multicast identifier generated using the bit sequence (paragraph [0170], lines 1-11), but a payload identifier associated with the received packet is different from the a selected portion of the data identifier; receiving a transmission associating the one of the group consisting of a cyclic redundancy code, a hash function and a pseudorandom number with a non-conflicting multicast identifier (paragraph [0168], lines 1-3); and receiving the desired packet using the non-colliding multicast identifier (paragraph [0073], lines 5-7).

Regarding claim 24, Dougall et al. disclose

The method of claim 19, wherein step (a) includes calculating a 64 bit number, of which a payload identifier is a portion (paragraph [0072], lines 12-13).

Regarding claim 25, Dougall et al. disclose

A method for transmitting data, comprising the steps of: (a) calculating a plurality of program identifiers based on respective bit sequences associated with respective sets of at least one packet (paragraph [0034], lines 6-10); (b) associating each set of at least one packet with the respective program identifier calculated from the bit sequence for that set of at least one packet (paragraph [0034], lines 10-19); and (c) transmitting to a receiver associated with one of the plurality of program identifiers a list including a respective data identifier for each set of at least one packet associated with the same program identifier as the receiver (paragraph [0036], lines 1-6).

Regarding claim 26, Dougall et al. disclose

The method of claim 25, wherein step (a) includes generating a number with an approximately uniform distribution using a file name as an input (paragraph [0168], lines 1-3. A generated random number will have an approximately uniform probability distribution).

Regarding claim 27, Dougall et al. disclose

The method of claim 25, wherein each packet has a multicast identifier that is calculated based on the bit sequence associated with the packet, the method further comprising: detecting a collision condition in which at least two packets are transmitted having the same multicast identifier, each of the at least two packets having a respectively different bit sequence associated therewith, transmitting information associating one of the at least two packets with a non-colliding multicast identifier; transmitting the one packet using the non-colliding multicast identifier (paragraph [0170], lines 1-11).

Regarding claim 28, Dougall et al. disclose

A method for receiving data, comprising the steps of: (a) calculating a program identifier based on a bit sequence associated with a desired set of at least one packet, the program identifier being associated with a receiver of the set of at least one packet (paragraph [0034], lines 6-10); and (b) receiving a list associated with the program identifier, the list containing a plurality of data identifiers, each data identifier in the list corresponding to a

respective set of at least one packet that is to be received using that program identifier
(paragraph [0036], lines 1-6).

Regarding claim 29, Dougall et al. disclose

The method of claim 28, further comprising; receiving a program identifier usage bitmap that identifies which program identifiers are being used to transmit payload packets
(paragraph [0034], lines 12-15); **determining whether the desired set of at least one packet is available using the program identifier usage bitmap and the calculated program identifier** (paragraph [0034], lines 16-19).

Regarding claim 30, Dougall et al. disclose

The method of claim 29, further comprising: detecting a file-not-found condition if the calculated program identifier for the desired set of at least one packet is identified as not being used to transmit data in the program identifier usage bitmap (paragraph [0036], lines 6-12).

Regarding claim 31, Dougall et al. disclose

The method of claim 29, further comprising: detecting a file-not-found condition if the calculated program identifier for the desired set of at least one packet is identified as being used to transmit data in the program identifier usage bitmap, and the data identifier corresponding to the desired set of at least one packet is not included in the list containing the plurality of data identifiers for that receiver (paragraph [0035], lines 1-8).

Regarding claim 32, Dougall et al. disclose

A system for transmitting at least one file from a sender to a receiver, the system comprising: a sender storage medium for storing said at least one file (paragraph [0037], lines 4-6), said at least one file having a corresponding file identifier; a converter for converting the contents of said at least one file into at least one bit stream to be transmitted (paragraph [0136], lines 1-7); a sender transformer for providing a key based on said file identifier; said converter incorporating said key into said bit stream for transmission to said receiver (paragraph [0137], lines 1-5).

Regarding claim 33, Dougall et al. disclose

The system of claim 32 wherein said receiver is configured to select said said at least one file by means of said data identifier (paragraph [0036], lines 1-6).

Regarding claim 34, Dougall et al. disclose

The system of claim 32, wherein the server transmits a program identifier usage bitmap that identifies which program identifiers are being used to transmit payload data (paragraph [0034], lines 12-15).

Regarding claim 35, Dougall et al. disclose

The system of claim 32, wherein the system further comprises a receiver that includes: a processor for calculating the program identifier for a desired set of at least one packet

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using the same calculation used by the server to calculate the program identifier for the at least one packet (paragraph [0030], lines 1-3, paragraph [0034]), **and the processor detects a file-not-found condition if the program identifier for the desired at least one packet is not listed in the program identifier usage bitmap as being used to transmit payload data** (paragraph [0036], lines 6-12, paragraph [0034], lines 12-15).

Regarding claim 36, Dougall et al. disclose

A system for receiving data, comprising: a client processor that calculates a payload identifier based on a bit sequence associated with a given set of at least one packet, the client processor using the payload identifier to receive the given set of at least one packet from a server (paragraph [0034], lines 10-19).

Regarding claim 37, Dougall et al. disclose

The system of claim 35, wherein the client processor generates a number with an approximately uniform probability distribution, and the payload identifier is at least a portion of the generated number (paragraph [0168], lines 1-3. A generated random number will have an approximately uniform probability distribution).

Regarding claim 38, Dougall et al. disclose

The system of claim 37, wherein a second portion of the generated number is used as a multicast identifier (paragraph [0038], lines 7-9).

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Regarding claim 39, Dougall et al. disclose

The system of claim 38, wherein the client includes: means for detecting a collision condition in which a received packet has a multicast identifier that matches the multicast identifier generated using the bit sequence (paragraph [0170], lines 1-11), but a payload identifier received with the packet is different from the payload identifier calculated by the client processor, mean for receiving information associating the desired set of at least one packet with a non-colliding multicast identifier (paragraph [0170], lines 1-11); means for receiving the desired packet using the non-colliding multicast identifier (paragraph [0073], lines 5-7).

Regarding claim 40, Dougall et al. disclose

The system of claim 36, wherein the bit sequence is a file identifier (paragraph [0034], lines 12-15).

Regarding claim 41, Dougall et al. disclose

The system of claim 36, wherein the bit sequence is a filename and the client calculates the data identifier based on one of the group consisting of a cyclic redundancy code, a hash function and a pseudorandom number formed from the file name (paragraph [0168], lines 1-3. A generated random number will have an approximately uniform probability distribution).

Regarding claim 42, Dougall et al. disclose

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A computer readable medium encoded with computer program code, wherein when the computer program code is executed by a server processor, the server processor performs a method for transmitting a packet associated with a bit sequence, comprising the steps of:

- (a) calculating a data identifier based on the bit sequence (paragraph [0034], lines 6-10);**
- (b) assigning the data identifier to the packet (paragraph [0034], lines 10-15); and (c)**
- transmitting said packet to a receiver using the data identifier (paragraph [0036], lines 1-12).**

Regarding claim 43, Dougall et al. disclose

A method of transmitting payload data from a headend to a television converter (paragraph [0020], lines 1-3), comprising the steps of : spinning a plurality of data units from the group consisting of packets and files without transmitting a directory of all of the data units being spun (paragraph [0070], lines 8-13); and calculating information used to spin the units of data by a common calculation that is used by the television converter to receive the units of data without a directory of all of the data units being spun (paragraph [0073], lines 5-7).

Regarding claim 44, Dougall et al. disclose

In a system including at least one file storage medium, said file storage medium including at least one file to be transported from a file sender to a file receiver (paragraph [0030], lines 1-16), wherein each of said at least one files to be transported has associated therewith a corresponding file identifier, a sender comprising: a packetizer, a transform;

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a multiplexer; at least one file manager communicating with said file storage medium, said packetizer and said transform such that said files on said file storage medium are provided to said packetizer and said corresponding filenames are provided to said transform, said packetizer providing at least one corresponding data packet comprising said file to said multiplexer (paragraph [0034], lines 1-19); said transform providing a packet identifier based upon said corresponding filename to said multiplexer; for each file to be transported said multiplexer providing a packetized bitstream including said at least one file to be transported, each packet of said bitstream including said file identifier and at least a portion of said file (paragraph [0070], lines 1-13).

Regarding claim 45, Dougall et al. disclose

The system of claim 44 further including a data carousel in communication with said packetizer and said multiplexer, wherein said packetizer provides said packets to said data carousel based upon said corresponding file identifier. This claim is rejected on the same grounds as claim 44, as examiner takes Official Notice that a data carousel is notoriously well known in the art as a format to transmit data.

Regarding claim 46, Dougall et al. disclose

In a system including at least one file storage medium including at least one file to be transported from a sender to a receiver, wherein each of said at least one files to be transported has associated therewith a corresponding file identifier, a receiver comprising: at least one tunable filter; a transform; a processor; programmed to utilize

said at least one file to be transported; said processor providing said filename of said at least one file to be utilized to said transform; said transform providing a packet identifier corresponding to said at least one filename to a tunable filter such that said tunable filter selects packets comprising said file and provides said selected packets to a packet processor, said packet processor providing said file to said processor (paragraph [0034], lines 1-19, paragraph [0070], lines 1-13, paragraph [0076], lines 1-16).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dougall et al. (Pub. No.: US 2003/0093485) in view of Walker et al. (Patent No.: 5,612,956).

Regarding claim 3: **The method of claim 1, wherein said communications channel transports Digicipher II data packets** (Walker, column 7, lines 56-62). Dougall et al. disclose the method of claim 1, however they do not disclose transporting Digicipher II data packets. Walker et al. disclose transporting data packets such as MPEG-2 or Digicipher II (column 7, lines 56-62). Therefore, it would have been obvious to one of ordinary skill in the art at the time

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of the invention to allow for the method of claim 1 to transport Digicipher II data packets.

Having a communications channel that transports Digicipher II would have been highly desirable, as Digicipher II is well known in the art as an encryption method, and therefore would have increased the number of possible applications of this method.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dougall et al. (Pub. No.: US 2003/0093485) in view of Keck et al. (Pub. No.: US 2004/0228414).

Regarding claim 4: **The method of claim 1, wherein said communications channel transports SI data packets** (Keck, paragraph [0056], lines 9-11). Dougall et al. disclose the method of claim 1, however they do not disclose transporting SI data packets. Walker et al. disclose transporting data packets with SI data (paragraph [0056], lines 9-11). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to allow for the method of claim 1 to transport SI data packets. Having a communications channel that transports SI data packets would have been highly desirable, as SI data is well known in the art as a type of broadcast data, and therefore would have increased the number of possible applications of this method.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dougall et al. (Pub. No.: US 2003/0093485) in view of Choquette (Pat. No.: 6,088,784).

Regarding claim 9: **The method of claim 8, wherein the non-colliding multicast identifier is formed by adding a constant to the multicast identifier for which the collision condition is detected** (Choquette, column 6, lines 34-43). Dougall et al. disclose the method of claim 8, however they do not disclose the use of this exact method for determining a multicast identifier. Choquette discloses using such a calculation to determine multicast identifiers (Choquette, Fig. 5, column 6, lines 24-44). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to use this calculation for determining a multicast identifier. Having a multicast identifier determined in this manner would have been highly desirable, as it would be a simple method to change a repetitive multicast identifier, and thus would help to improve the efficiency with which the files were transported.

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dougall et al. (Pub. No.: US 2003/0093485) in view of Yasuda et al. (Pub. No.: US 2004/0205152).

Regarding claim 12; **The method of claim 11, wherein step (a) comprises: (i) determining a program identifier by the equation: $PID\ index = X\ modulo\ NPIDSON$, where PID is the program identifier, X is a result of performing at least one XOR operation on two or more portions of the one of the group consisting of a cyclic redundancy code, a hash function and a pseudorandom number** (Yasuda, paragraph [0163], lines 3-13), **and NPIDSON is a number of packet processors to which payload files are being sent; (ii) performing a table**

lookup using PID index as a lookup parameter (Yasuda, paragraph [0161], lines 5-7); **and (iii) adding an offset to a value output by the table lookup.** Dougall et al. disclose the method of claim 11, however they do not disclose the use of this exact formula for determining a program identifier. Yasuda discloses using such a calculation to determine file identifiers. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to use this formula for determining a program identifier. Having a program identifier determined in this manner would have been highly desirable, as it would help to improve the efficiency with which the files were transported.

Claims 16 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dougall et al. (Pub. No.: US 2003/0093485) in view of Ungstad (Pub. No.: US 2005/0114751).

Regarding claim 16: **The method of claim 15, wherein the multicast identifier is formed by performing an XOR operation** (Ungstad, paragraph [0042], lines 6-7) **on two non-contiguous portions of the one of the group consisting of a cyclic redundancy code** (Ungstad, paragraph [0012], lines 1-6), **a hash function and a pseudorandom number.** Dougall et al. disclose the method of claim 15, however they do not disclose the use of this exact operation (using an XOR function) for determining a multicast identifier, or using a cyclic redundancy code. Ungstad discloses using such an operation to determine file identifiers, as well as using a cyclic redundancy code. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to use this operation for determining a multicast identifier based on a

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cyclic redundancy code. Having a multicast identifier determined in this manner would have been highly desirable, as it would help to improve the efficiency with which the files were transported.

Regarding claim 18: **The method of claim 1, wherein: a program identifier is calculated from at least a portion of a cyclic redundancy code calculated from a file name associated with at least one packet of payload data to be transmitted; and step (c) includes transmitting the at least one packet of payload data to a packet processor that is identified by the program identifier.** Dougall et al. disclose the method of claim 1, however they do not disclose the use of a cyclic redundancy code for determining a program identifier. Ungstad discloses using a cyclic redundancy code to determine file identifiers. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to use a cyclic redundancy code for determining a program identifier. Having a program identifier determined in this manner would have been highly desirable, as it would help to improve the efficiency with which the files were transported.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JOSHUA TAYLOR whose telephone number is (571)270-3755. The examiner can normally be reached on 8am-5pm, M-F, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vu Le can be reached on (571) 272-7332. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Josh Taylor/

/ABUL K. AZAD/
Primary Examiner, Art Unit 2626